

Welco Microlight

“Dawn to Dusk”

Illumination Controller

Please read important information



Welco Engineering Ltd

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HEALTH AND SAFETY AT WORK



DANGER
ELECTRIC SHOCK RISK

ELECTRIC DEVICES CAN CONSTITUTE A SAFETY HAZARD

It is the responsibility of the user to ensure that the installation and maintenance of the product are carried out in strict compliance with any relevant instructions, regulations, codes of practice or bylaws in force.

This equipment should only be installed and commissioned by appropriately qualified personnel who have read and fully understood this users manual. If in doubt contact your supplier or Welco Engineering Ltd. for technical advice.

Every care has been taken to ensure that the contents of this instruction booklet are accurate , however no liability is accepted for any consequence of its use.

The manufacturers reserve the right to revise the product specification and other technical features resulting from improvement and continual development.

MICRO-LIGHT “DAWN TO DUSK” DIMMER

Supply Input	.....	230v 50Hz. +10%-6% 2.8VA
Minimum output	.....	Adjustable 0 -100%.
Supply Input Fuse	.....	16 Amp (Type T) Fuse
Supply output	.....	0 - 230v 2.8kva
Maximum output current	.....	12A
Output control	.....	Variable or Maximum
Variable “dawn to dusk” Periods	.....	Adjustable 0 to 30 Minutes
Minimum time (Clock fitted version)	.....	15 minutes

DESCRIPTION

The Microlight “Dawn to Dusk” controller employs microcomputer technology in association with power electronic control to simulate “dawn to dusk” illumination conditions. Designed and manufactured by Welco Engineering Ltd. This unit provides a reliable method of increasing or decreasing the voltage via a power semiconductor and may be used to control either tungsten bulbs or fluorescent lamps.

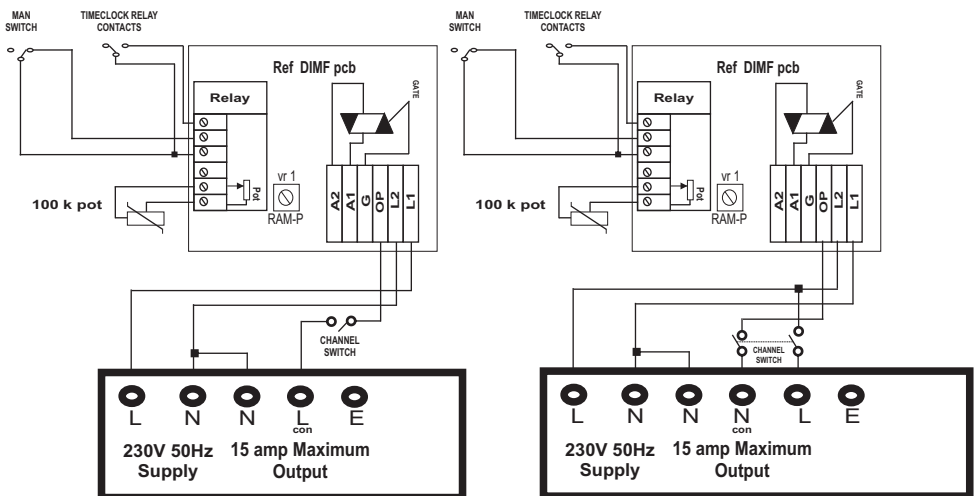
This unit can be fitted with a timeclock or employ an external timeclock so that the output can be switched on and off as required.

Controls

The actual illumination level is simply adjusted by the potentiometer (Variable resistor) mounted on the front cover. The potentiometer needs to be set on full illumination for the unit to ramp to full in the “Dawn to Dusk” mode. The control switch also mounted on the front cover is to provide manual control. The unit can be fitted with up to four channel output switches for separate channel switching

The “Dawn to Dusk” ramp duration time is set by adjusting the potentiometer marked *RAMP* on the left hand side the circuit board mounted inside the unit by using a small electricians screwdriver.

The “Dawn to Dusk” dimmer also has the facility as an option, to operate centre rows of lights which are dimmable then at the “Top of Ramp” the unit can switch outside rows of lights which can be any type of fitting to run at full brightness.



It is impossible to show every type of configuration of output, so prior notice of the type of output is required to ensure the correct unit is supplied
If there are any difficulties please contact us.

Welco Engineering Ltd.

For over 40 year's Welco Engineering Ltd. have specialised in the design, manufacture and installation of state of the art electrical and electronic control systems and equipment for agriculture and industry.

The company offers large comprehensive range of standard manufactured products to satisfy the majority of environmental control requirements, and a service to build to customers specific requirements.

Welco Engineering Ltd., also offer a consultancy service, based on engineers considerable knowledge and expertise in resolving the many environmental problems associated with intensive livestock production units.

Welco PRODUCTRANGE

- ☐ Fan Speed Controllers.
- ☐ Automatic Fan Controllers with switched Heater Interlocks.
- ☐ Electronic Sequential fan Controllers.
- ☐ PRESCON 2 Digital Air-Pressure controller.
- ☐ Lighting Control Systems.
- ☐ Total Refurbishment Programmes.
- ☐ Maintenance Contracts.

Welco Engineering Ltd.

- ☐ **Welco MICROLIGHT**
"Dawn to Dusk" Controls
- ☐ High and Low Temperature Alarms
- ☐ Supply failure Alarms
- ☐ Alarm Monitoring Systems
- ☐ Magnetically Held Door Control Systems
- ☐ MICRO-STAT Digital Thermostat.
- ☐ MICRO-TIMER Digital Cycle Timer.
- ☐ Transducers, Sensors and Thermostats.
- ☐ Vent Drive Motors/ linear Actuators and Power Supplies
- ☐ STICK Microcomputer Total Environment Controller

For further details of any product or service please do not hesitate to contact us:-

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